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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,895	03/14/2007	Marcel Andre		1607
Marcel Andre 276 Rue d'Artois			EXAMINER	
			GIRARDI, VANESSA MARY	
Moissy Cramayel, 77550 FRANCE			ART UNIT	PAPER NUMBER
			2833	
			MAIL DATE	DELIVERY MODE
			09/25/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/581,895	ANDRE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Vanessa Girardi	2833				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be timil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	Lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>June</u>	24. 2008 (Response to NF).					
· =						
·						
Disposition of Claims						
4)⊠ Claim(s) <u>1-17 and 20</u> is/are pending in the appl	ication					
,	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-9,13-17 and 20</u> is/are rejected.						
7) Claim(s) <u>10-12</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement					
are subject to restriction and or	oloodon roquiromona.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>24 June 2008</u> is/are: a)	10)⊠ The drawing(s) filed on <u>24 June 2008</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)	△□	(DTO 440)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P					
Paper No(s)/Mail Date	6)					

Examiner acknowledges and appreciates the amendment filed June 24, 2008 including:

amendments to the specification overcoming previously held objections.

□ replacement figures 9-12, overcoming previously held objections.

amended claims 2, 9 and 10, overcoming previously held objections.

Claim Objection

1. Claim 16 is examined with the understanding that the word "trough" should actually be —through-, correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. §103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-9, 15, 17 and 20 are rejected under 35 U.S.C. §103(a) as being unpatentable over Spier (US 4,601,528) in view of Liegl et al. (US 2002/0173199).

With respect to claims 1-3, 5, 6, 17 and 20 Spier shows a connector 10 for a sealed connection of a flat cable arrangement 14, 12, comprising: an external housing 46, 16, which even in an unassembled condition of the connector and the flat cable arrangement [Fig. 1] has an insertion opening 52 which is adapted for the insertion of the end of a flat cable arrangement 12 in order to effect electrical connection [BETWEEN 14 AND 12] at a connection area of the insertion opening 52, sealing elements 70, 34, 36 on both sides [Fig. 3] of the flat cable arrangement 14, 12 at the connection area of the insertion opening [Fig. 3] such that it only comes into effective contact with flat cable arrangement 14, 12 when the flat cable

arrangement 14, 12 is in an inserted condition [Fig. 2], and a device 66 for the pressurization

of the dielectric elastomer sealing element 34 having a cushion form, for sealing at least

the connection area of the flat cable arrangement 14, 12 in an inserted condition

[COL. 6, LINES 31-34]; the flat cable arrangement comprises a flat ribbon cable 60 and a

connector end.

Spier does not show the sealing elements **70**, **34**, **36** comprising compressed gel.

Liegl et al. teaches a solution to a similar problem wherein a compressed gel is

used [0022].

Therefore, it would have been obvious to a person of ordinary skill in the art at the time

the invention was made to modify the sealing element 34 of Spier using a compressed gel as

taught by Liegl et al. [0022] because of a gel's ability to squeeze more completely into affected

areas thereby producing a more reliable seal.

With respect to claim 4; Spier shows terminal contacts 18 arranged at the connection

area of the connector for interacting with terminals 54 attached to the conductor ends of the flat

cable arrangement 14, 12.

With respect to claims 7, 8, 9; Spier shows two sealing elements 70, 36 and the

pressurization device 66 wherein the sealing elements can be moved in a pincer-like movement

in a direction of the upper and lower side of the flat cable arrangement 14, 12; and are capable

of moving between a position which essentially completely opens the insertion opening to the

connection area [Fig. 1] and a position essentially closing the insertion opening [Fig. 2]

characterized by catching or snapping means [Col. 6, LINES 31-38] associated to the

pressurization device **66**.

With respect to claim 15; Spier shows the pressurization device 66 and a housing cover 28 which closes the insertion opening 52. Yet, Spier does not show the cover is part of the pressurization device.

Page 4

Liegl et al. shows the pressurization device 2, 3 is the connector housing cover which closes the insertion opening.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to consider a connector housing cover which serves as both the pressurization device as well as closing the insertion opening thereby providing means for visual confirmation / inspection before final assembly.

3. Claims 13, 14 and 16 are rejected under 35 U.S.C. §103(a) as being unpatentable over Spier (US 4,601,528) and Liegl et al. (US 2002/0173199) as applied to claim 1, and further in view of Dean et al. (US 3,333,229). Spier as modified by Liegl et al. has been discussed above. Neither Spier nor Liegl et al. show or teach a sealing element and pressurization device that can be inserted into a through hole within the connector housing after the insertion of the cable arrangement.

Dean et al. shows an analogous connector [Fig. 1] wherein the sealing element **18** and pressurization device **20** are inserted into a through hole **22** within the connector housing **10** after the cable arrangement has been inserted in the insertion opening [Col. 5, Lines 29-44], the pressurization device **20** having a slot **68** essentially corresponding to the cross-section of the flat cable arrangement **14** and through which the flat cable arrangement is guided [Fig. 2].

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to consider a sealing element and pressurization device that are inserted into the opening after the flat cable arrangement as taught by Dean et al. [Col. 1, Lines 38-47] to modify the connector of Liegl et al. thereby producing a flat cable that is

stabilized within the connector arrangement such that variations in cable thicknesses are accommodated and sealed against exposure, thus ensuring a longer service life.

Allowable Subject Matter

4. Claims 10-12 are objected to as being dependent upon a rejected base claim, but would

be allowable if rewritten in independent form including all of the limitations of the base claim,

any intervening claims and overcoming any applicable objections discussed above.

The following is a statement of reasons for the indication of allowable subject matter:

With respect to claim 10; allowability resides, at least in part, with the prior art not

showing or teaching the connector having guidance devices that extend at the side of the

insertion opening arrangement diagonally from above and below the flat cable arrangement in

conjunction with ALL the remaining limitations within claims 1 and 9.

With respect to claim 11; allowability resides, at least in part, with the prior art not

showing or teaching the connector having guidance and catching devices assigned to guide the

pressurization device, first in a normal direction in relation to the flat cable arrangement at the

connecting point and then in an axial direction in relation to the flat cable arrangement at the

connecting point or vice versa in conjunction with ALL the remaining limitations within claims 1

and 11.

Response to Remarks

5. Applicant's arguments have been considered but are moot in view of the new grounds of

rejection.

Application/Control Number: 10/581,895 Page 6

Art Unit: 2833

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the

extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from

the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH

of this final action and the advicery action is not mailed until after the one of the finale more than

shortened statutory period, then the shortened statutory period will expire on the date the advisory action

is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX

MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Vanessa Girardi: Telephone number (571) 272-5924.

Monday - Thursday 7 a.m. to 5:30 p.m. (EST)

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor,

Renee S. Luebke can be reached on (571) 272-2009...

The fax phone number for the organization where this application or proceeding is assigned is

(571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application

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at 866-217-9197 (toll-free).

VG

Art Unit 2833

September 22, 2008

/renee s luebke/

Renee Luebke Supervisory Primary Examiner

AU 2833